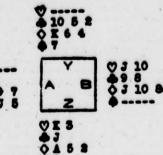
Missing Seventh Trick at Bridge Won by Skilful Discard Tactics.

PUZZLE OF A CARD SCORE

Lessons for the Student of Checkers-Chemist's Exercise in Proportions.

Bridge problem No. 237 presented the usual difficulty of a discard problem, as there were only six sure tricks in sight; it was necessary to lead trumps at least once, after which two trump tricks were in sight, with two kings and an ace. Here is the distribution:

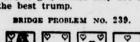


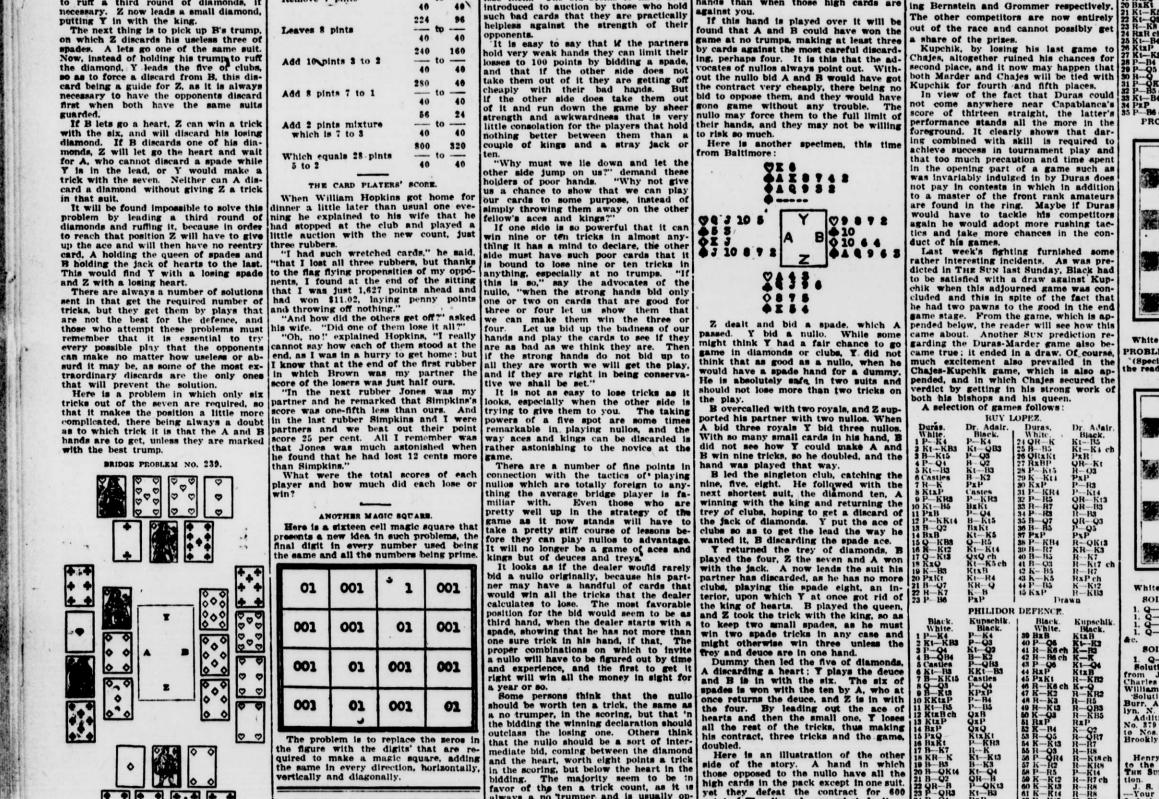
Clubs are trumps and Z is in the lead. Y and Z want all seven of these tricks

Tand Z want all seven of these tricks against any defence.

The solution is for Z to lead a trump so as to disarm A and bring B down to one trump, which Y can pick up later. A's trump out of the way, Z leads the king of hearts, upon which A's best discard is a spade, Y letting go a small diamond. This leaves Y's hand in shape to ruff a third round of diamonds, if necessary. Z now leads a small diamond, putting Y in with the king.

The next thing is to pick up B's trump, on which Z discards his useless three of spades. A lets go one of the same suit. Now, instead of holding his trump to ruff the diamond, Y leads the five of clubs, so as to force a discard from B, this discard being a guide for Z, as it is always necessary to have the opponents discard first when both have the same suits guarded.





Here is the distribution of the cards:

Here is the distribution of the cards: I holds the deuce of trumps, the queen, nine, seven, three of hearts, king of diamonds and nine of spades.

A holds the six of trumps, the ace of hearts, queen six, five of diamonds and the queen eight of spades.

Z holds the ten and five of trumps, the ace, jack, four of diamonds and the six and five of spades.

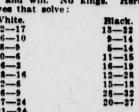
B holds the seven of trumps, the ten, eight, seven of diamonds and the ten, six, four of hearts.

four of hearts.

CHECKER ENDINGS.

The position given in problem No. 237 is one that should be particularly instructive to the student of tactics, and is more like a lesson than a puzzle, showing, as it does, how carefully the position of a single piece must be planned in advance so as to arrive at a winning position which is still some way off.

The distribution was: Black men on 5, 9, 11, 12, 13, 14, 16, 20. White men on 18, 21, 22, 23, 24, 26, 27 and 31. White to play and win. No kings. Here are the moves that solve:



The student will observe that the win is brought about solely through the position of the white king. After white has got his two for one and black has done the same thing there does not seem to be much in the position in favor of either player until we reach the careful posting of the white king at 9, pinning the two black men, which effectually sews up black's game.

plack's game.

Tere is another position in which the

PROBLEMS FOR "SUN" It out on equal terms. The beginner will playing NULLOS find this a very practical leason, in end games, involving a principle that is continually applicable in actual play.

PROBLEM No. 239. CHECKERS.

White to play and win. The distribution of the men is as follows: Black men on 2, 5, 7, 10, 11 and 16. White men on 14, 17, 18, 20, 22, 25 and 28. No kings.

THE CHEMIST'S DILEMMA.

THE CHEMIST'S DILEMMA.

This problem was a question in proportions for the solution of which no algebra was needed. The conditions were to prepare 28 pints of an acid solution which should contain 5 parts of water to 2 parts of acid, and this was to be compounded from four other stock solutions of the following proportions:

No. 1— 9 pints, 3 of water, 1 of acid.

No. 2— 6 pints, 5 of water, 2 of acid.

No. 2—12 pints, 3 of water, 2 of acid.

No. 4—10 pints, 7 of water, 2 of acid.

The chemist's pupil first put the 15 pints of No. 1 and 2 together and then dipped out 7 pints of the mixture, setting it aside. The problem was to find how he got the 28 pints of the required proportion after that.

The solution is that from No. 3 he took 10 pints and from No. 4 he took 8 pints. He then found that by returning to the large crock 2 pints of the mixture of Nos. 1 and 2 he had just 25 pints in the proportion of 5 of water to 2 of acid.

Here is the proof:

Here is the proof:	
	Water. Acid.
9 pints 3 to 1 equal	to
	40 40
	150 90
6 pints 5 to 3 equal	— to —
	40 40
	420 180
Mixture	40 to -
	196 84
Remove 7 pints	40 40
	224 96
Leaves 8 pints	to
	40 40
	240 160
Add 10 pints 3 to 2	— to —
	40 40
	280 40
Add 8 pints 7 to 1	40 to -40
	56 24
Add 2 pints mixture which is 7 to 3	40 to
which is a to a	
	800 320
Which equals 28 pints 5 to 2	40 40
J.U	
THE CARD PLATER	s' SCORE.

01	001	* 1	001
001	001	01	001
001	01	001	001
003	01	001	01

the figure with the digits' that are required to make a magic square, adding the same in every direction, horizontally, vertically and diagonally.

SUNBURNT SKINS NEED



SOAP

And Cuticura Ointment. For heat rashes, itchings, sunburn, wind irritations, redness and roughness of the face and hands, Cuticura Soap, assisted by Cuticura Ointment, has no rivals worth mentioning. No others do so much for the complexion, hair and hands.

s game.

Signature is another position in which the grade has the superior force but a currender a man and fight is the superior force of the superior for

A Declaration Borrowed From

THE AIM TO LOSE TRICKS

New Feature of Game Intended

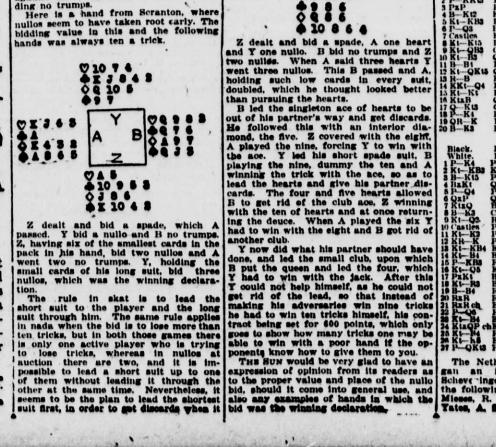
the bidding the winning declaration should outclass the losing one. Others think that the nullo should be a sort of intermediate bid, coming between the diamond and the heart, worth eight points a trick in the scoring, but below the heart in the bidding. The majority seem to be in favor of the ten a trick count, as it is always a no trumper and is usually opposed to a no trump bid, low cards against high ones.

A number of letters have come to The Sun asking for information about the

high ones.

A number of letters have come to THE SUN asking for information about the play in nullos, and several correspondents have been kind enough to send along hands which were played as nullos, showing how they work out in practice. The fundamental principle of the bidding seems to be to-insist that the bidder shall have the small cards of his longest suits and that the higher the adversaries go with their declaration the better the chance to carry out a nullo contract against them, especially if they are bidding no trumps. ding no trumps.

Here is a hand from Scranton, where nullos seem to have taken root carly. The bidding value in this and the following



LAYING NULLOS

AT ROYAL AUCTION

Is continued. The great thing in playing nullos is to get discards. Having no suit shorter than others, B led the ace of diamonds, upon which all three players got rid of their highest cards, the jack, king and queen falling. B continued with the nine, Z ducked it with the eight, A played the four, and Y took the trick with the ten, keeping the small card to get rid of the lead later.

Upon looking over his dummy, Y sees that he is comparatively safe in spades, and quite safe in clubs, in which suit he cannot be made to take a trick, no matter how the adversaries play the hearts, and to be safe in everything. Y therefore leads the heart ten.

B ducks, playing the eight to avoid the lead, but Z puts the ace right on, getting the king from A. Upon returning the five of hearts, it holds the trick, A playing the king from A. Upon returning the five of hearts, it holds the trick, A playing the three, Y the four and B the deuce. Now Y's game is made up, because if both A and B have a heart, the seven must be a losing card and will get rid of the lead if neither A nor B gets a heart discard.

Dummy lead the six of diamonds, which

LOYER AND STUDENT

Daring of Capablanca Telling

to Give Holders of Low Cards a Chance.

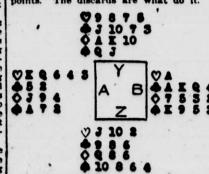
Upon sitting down at a bridge table at these days, especially at summer resorts the seed of the lead if neither A nor B gets a heart, the seven mention of the lead if neither A nor B gets a heart has a three days, especially at summer resorts the seed and the seed of the lead if neither A nor B gets a heart has a three days, especially at summer resorts the seed and the seed of the lead of the seed at the seed of the lead of the lead of the seed of the lead of the seed of the lead the seed of the lead three three has been done and the seed of the lead to the s



and Z took the trick with the king, so as to keep two small spades, as he must win two spade tricks in any case and might otherwise win three unless the frey and deuce are in one hand.

Dummy then led the five of diamonds, A discarding a heart: Y plays the deuce and B is in with the six. The six of spades is won with the ten by A, who at once returns the deuce, and Z is in with the four. By leading out the ace of hearts and then the small one. Y loses all the rest of the tricks, thus making his contract, three tricks and the game, doubled.

Here is an illustration of the other



Duras Is Still Favorite for

BLACK IN THIRD PLACE

39 BaB
40 P—Q6
41 P—K6 ch
42 P—B6 ch
43 P—D6
44 Papk
46 R—K6 ch
47 Papk
48 R—K6 ch
48 R—K3
50 K—Q8
51 R—P
52 K—Q5
55 R—K13
55 R—Q5
55 R—K13
61 K—K13
65 R—Q6
65 R—K16
62 R—K16
63 R—Q7
64 R—K16
65 R—Q4
66 K—K16
67 R—B5
68 R—Q3
66 R—Q4
67 R—B5
68 R—Q3
67 R—B4
77 R—B4
77 R—R5
77 R—R5

ENGLISH OPENING. Chaies.
White.
1 P.—QB4
2 P.—KKu3
3 Pap
4 B.—Kt2
5 Kt.—KB3
6 P.—Q3
7 Castles
8 Kt.—CB3
10 Kt.—B3
11 B.—B4
2 Kt.—QKu5
3 R.—B OPENING.
Chales.
Witte.
21 B — Q2
22 R — B
23 Q — Q4
25 P x P
26 K — R
27 R — KKt
28 B — R8
29 R — R
50 R x P
30 Q x R
32 Q x R
33 Q x R
34 Q x P
35 B — K5
34 Q x P
35 B — K5
36 B — B9
38 B — B6
59 B x R PxP Kt-KB3 B-K2 B-K3 Kt-B3 B-KB4 Castles Q-Q2 P-KlB QR-B KR-K Kt-Kt P-B3 QxKt P-B3 P-KK4 P-Q8

BUY LOPEZ. Black.
White.
28 PAP
29 K Q2
30 B K IS
31 P B4
32 PAB
33 B B Q2
34 B Q4
35 K K R2
36 P B3
37 K B2
38 B K I6
39 P QRJ
41 B Q4
42 B B6
43 B K5
44 B K5
46 B B4
47 K K K
48 B B4
40 K B B4
30 K B B4
30 K B B4
30 K B B4
30 K B

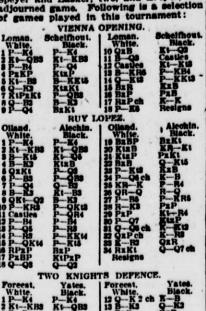
A. Alechin.

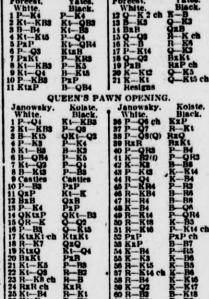
After the seventh round the scores of the leaders were as follows:

Alechin, 5; Janowsky, 4; Yates, 4; Breyer, 8½; Speyer, 3; Lasker, 3, and Olland, 2½.

Janowsky and Olland had three adjourned games in hand, Alechin, Yates, Speyer and Lasker, two, and Breyer, one adjourned game. Following is a selection of games played in this tournament:

VIENNA OPENING.

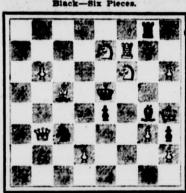






White to play and mate in three moves. PROBLEM NO. 386. BY J. S. BOYD, JR (Specially composed for and dedicated to the readers of THE SUN.)

Black-Six Pieces.



White-Eleven Pieces. White to play and mate in two moves. SOLUTION TO PROBLEM NO. 388. 1. Q-B3, K-K6; 2. Q-Q6, ch, &c, 1. Q-B3, PxQ; 2. R-Kt2, &c, 1. Q-B3, PxQP; 2. QxQP, &c, 1. Q-B3; K-Kt3 or any other; 2. QxKP,

SOLUTION TO PROBLEM NO. 384. Solution to Problem No. 388.

1. Q-R6, &c.

Solutions to both these problems received from James Roberts, Philadelphia, Pa.; Charles Willing, Atlantic City, N. J.; M. William Runk, Ridgewood, N. J.

Solutions to No. 355 received from F. N. Burr, Ansonia, Conn.; B. S. Barrett, Brooklyn, N. Y.

Additional correct solutions received to No. 379 from B. S. Barrett, Brooklyn, N. Y.; to Nos. 381 and 382 from B. S. Barrett, Brooklyn, N. Y.

CORRESPONDENCE.

CORRESPONDENCE. Henry Cullum, Sunnyside.—A correction to the position referred to was printed in The Sun the Sunday following its publication.
J. S. Boyd, Jr., Poncho Springs, Colorado.
—Your correction came too late. You will find the original position above. The three mover cannot be given, as the position does not warrant it on its merits.

DEMAND FOR GAETOST.

Minnesota Norwegians Have to Get It From Norway. Minneapolis, Aug. 14.—According to the annual report of J. G. Winkler, State Dairy and Food Commissioner, the cheese industry increased about 1,000,000 pounds in a year, from 3,890,648 in 1911 to 4,842,328 in 1912, but the manufacture of "gaetost," favorite curd dainty of Scandinavian folk,

favorite curd dainty of Scandinavian folk, is practically nil.

Made from goat's milk, "gaetost" is imported from Norway and is consumed in the quantity of approximately 8,000 pounds annually by householders of Minneapolis.

"So far as I know there is not a single footow, in Minneapole turning out this "So far as I know there is not a single factory in Minnesota turning out this product," said Albert A. Leavitt, manager of J. L. Kraft & Co. "The demand for it is heavy. Practically all sold comes from Norway and is bought by Scandinavian people. The nearest approach to gaetost is a commercial by-product called "prismost," which is made from whey."

Gaetost has a taste and temperament all its own, its admirers admit.

GETS FAMILY'S INSURANCE.

Youngster, Now of Age, Alone Survives Cyclone.

Douglass, Kan., Aug. 15.—The Chandler Okla., eyclone of some nineteen years ago was called to mind again recently when Arthur Woodyard came to Douglass to claim \$2,000 life insurance which had been kept in trust by D. P. Blood, Woodyard's guardian, until the boy should reach his majority.

BROOKLYN ADVERTISEMENTS.

Prices | ### P 0 28 in. Wide, 18 in. Deep, \$3.00, worth \$6.00.

for this handsome Ta-ble Desk, finished in Early English Fumed Oak. and Great Bargains in Furniture, Car-pets, Housefurnishing Goods, etc.

Big Cash Discount Off Parlor, Chamber or Dining Room Furniture Cash or Charge Accounts 70 Years Established.

MASON'S MYRTLE AV., Cor. BRIDGE ST. BROOKLYN.



Marie with These Beautiful Uprights SLIGHTLY

Upright Bargains \$105 Stultz& Bauer \$4 Monthly Paid 135 E. GABLER 135 E. GABLER
165 A. BAUS
160 LOMMANN
175 WASSNER
250 Stoinway & Son 6 Monthly
Until Paid
Until Paid
Until Paid
Until Paid

11 COURT, COR. LIVING-STON ST., BROOKLYN. One block from Borough Hall Sub. Sta.

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DR. L. J. HOYT, DENTIST 485 Fulton St., near Jay or Smith St., Bklya.
Do not mistake the number.
Beautiful artificial gum sets of teeth, \$6, 33,
110 a set and upward, extracting included. Partial sets \$3.00 per tooth upward. Teeth extracted
painlessly. Filled, \$1 up. Estimates given.
ALL. WORK GUARANTEED

LEFT ALL TO ONE EMPLOYEE.

Woman Cut Off Her Relatives and Gave Reasons in Will.

San Francisco, Aug. 15.—Mrs. Ellen Sessions, who died recently at her home, 3102 Clay street, at the age of 76 years, left a will which made William E. Jackson, her former employee, heir to almost her entire estate, amounting to considerably over \$40,000. Her releatives she cuts of with the statement that they never assisted her, and to one, a sister whose married name she declared she never knew, she bequeaths \$1. The will begins thus:
"I left my native place when I was quite young, visited there a couple of times since, but from my relatives F have never had any assistance or consideration. When my husband died in 1894 he left me a dray-ing and trucking business which it was impossible for me to carry on without

assistance.
"I selected one whom I considered to be a good steady man, namely William E. Jackson, to carry on the business under my direction. He proved all that I expected him to be steady, attentive, in-dustrious and efficient. The result was that the business which I would have been compelled to dispose of at a loss was carried on successfully and at a profit from the time of the death of my husband until the present time, and out of it thave made a considerable sum and a nice suppor!

The will is dated February 25, 1907, sacksson died in October, 1911, feaving about \$50,000. The present estate will therefore go to his relatives.

BIG RATTLER LOOSE IN CAR.

Okla., cyclone of some nineteen years ago was called to mind again recently when Arthur Woodyard came to Douglass to claim \$2,000 life insurance which had been guardian, until the boy should reach his majority.

Arthur Woodyard was a mere child at the time of the disaster, in which many were killed, and he was the only one of his family to escape, his father, mother and international tournament at Scheve ingren, Holland, on July 2s with the following entries: Dr. A. Olland, J. Mieses, R. J. Loman, Ed Lasker, F. D. Mieses, R. J. Loman, Ed Lasker, F. D. Tates, A. Speyer, D. Janowsky, J. W. te SIOUX CITY, Ia., Aug. 15.-Only a

Express Messenger Grabs It and Returns It to Cage.